

549,943

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 November 2004 (11.11.2004)

PCT

(10) International Publication Number
WO 2004/097001 A2

(51) International Patent Classification⁷:

C12N

(74) Agent: BOYD, Victoria, L.; Genencor International, Inc.,
925 Page Mill Road, Palo Alto, CA 94304 (US).

(21) International Application Number:

PCT/US2004/013258

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 28 April 2004 (28.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/466,831

29 April 2003 (29.04.2003) US

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): GENENCOR INTERNATIONAL, INC. [US/US]; 925 Page Mill Road, Palo Alto, CA 94304 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): JONES, Brian, E. [GB/NL]; Gravin Juliana van Stolberglaan 24, NL-2263VA Leidschendam (NL). GRANT, William , D. [GB/GB]; 15 The Tithings, Kibworth Beauchamp, Leicestershire LE8 0PU (GB). HEAPHY, Shaun [GB/GB]; 426 Uppingham Road, Leicester, Leicestershire LE52DP (GB). GRANT, Susan [GB/GB]; 15 The Tithings, Kibworth Beauchamp, Leicestershire LE8 0PU (GB).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL BACILLUS 029CEL CELLULASE

The translated 029cel protein composed of 581 amino acids

MNFSLPIRFF GIGPTAGFFL LLMGSSALVA STHTDKIRID QFGYPADATK	50
VAVIADPQIG WNSAESYSPG ATLEVRRVND GVVVFSGSPV PWNGGAIHQ	100
SGDRVWWFDF TVVAEPGHYR IHDPANNTHS DSFAIGADVY DVVLREAVRM	150
FFYQRSGFAK EVPYAHANWA DAASHPQDVA SRPIWDMGNA SLERDLGGW	200
FDAGDFNKYS EWTGRVILEL LLAYQGRPDV FTDDFGIPES GNGVPDLLDE	250
VWKWMDWLLR MQEPSGAILG KVSVTGHQSA SPPSTDTHPR YYGPVSTEAT	300
AMAAAFAFLG ATVFESVGMS DYAVTLESAA IAAWNWTMVH PHVPFDNTGF	350
ASVSPSRNAH DTLANRVMAA AMLFERTGGA VYRDFFDVRY LDMEPVQWWY	400
FFPFQGELQK ALAHYTTLPG ATPSVSADIR NRMAASINGG EFLGAWNNQT	450
DAYRAYLKQ DYTWSNKTQ SQAGFFFEGV RRLGLNPADA AAHRDAAMGY	500
LHYLHGVPNM GMVYLSNMYA SGADRAANEI YHHWFRDGRT GTMPSLHSTV	550
PLLVFFRAGP NAQIQRKHSG DPRPTRAKSL P	581

WO 2004/097001 A2

(57) Abstract: The present invention provides a novel cellulase nucleic acid sequence, designated 029cel, and the corresponding 029cel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding 029cel, recombinant 029cel proteins and methods for producing the same.